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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------------|-----------------|----------------------|-----------------------|------------------|
| 10/525,744 | 02/28/2005 | Jung Man Kim | 000003-002 | 2040 |
| 777 's 70 1 | 7590 07/30/2007 | | EXAMINER | |
| White Redway & Brown 1217 King Street | | | HALPERN, MARK | |
| Alexandria, V | A 22314 | | ART UNIT PAPER NUMBER | |
| | • • | | 1731 | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 07/30/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | |
|--|--|---|---|--|
| | 10/525,744 | KIM, JUNG MAN | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Mark Halpern | 1731 | | |
| The MAILING DATE of this communication Period for Reply | on appears on the cover sheet w | th the correspondence address | | |
| A SHORTENED STATUTORY PERIOD FOR IN WHICHEVER IS LONGER, FROM THE MAILI - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicated. If NO period for reply is specified above, the maximum statutory. - Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). | NG DATE OF THIS COMMUNION CFR 1.136(a). In no event, however, may a ration. "period will apply and will expire SIX (6) MON by statute, cause the application to become AE | CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | |
| Status | | | | |
| 1) Responsive to communication(s) filed on | I | | | |
| • | This action is non-final. | | | |
| 3) Since this application is in condition for a | - illowance except for formal matt | ers, prosecution as to the merits is | | |
| closed in accordance with the practice u | • | · | | |
| Disposition of Claims | | | | |
| _ | . () | | | |
| 4)⊠ Claim(s) <u>1-7</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | |
| | indrawn from consideration. | • | | |
| 5) Claim(s) is/are allowed. | | • | • | |
| 6)⊠ Claim(s) <u>1-7</u> is/are rejected. | | | | |
| 7) Claim(s) is/are objected to. | | | | |
| 8) Claim(s) are subject to restriction | and/or election requirement. | | | |
| Application Papers | | | | |
| 9)☐ The specification is objected to by the Ex | aminer. | | | |
| 10) The drawing(s) filed on is/are: a) | | by the Examiner. | | |
| Applicant may not request that any objection | | | | |
| Replacement drawing sheet(s) including the | correction is required if the drawing | (s) is objected to. See 37 CFR 1.121(d). | | |
| 11) The oath or declaration is objected to by | | • • | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12)⊠ Acknowledgment is made of a claim for fo | projan priority under 25 LLS C. S | 110(a) (d) or (f) | | |
| a)⊠ All b)□ Some * c)□ None of: | oreign priority under 35 0.5.C. § | 119(a)-(u) 01 (1). | | |
| 1.☐ Certified copies of the priority docu | ments have been received | | | |
| 2. Certified copies of the priority docu | | nnlication No | | |
| 3. Copies of the certified copies of the | | | | |
| application from the International E | | received in this National Stage | | |
| * See the attached detailed Office action for | | received | | |
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| | | • | | |
| Attachment(s) | , | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9-9) | 4) Interview S | ummary (PTO-413) s)/Mail Date | | |
| Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO/SB/08) | | nformal Patent Application | | |
| Paper No(s)/Mail Date | 6) Other: | | | |

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DETAILED ACTION

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

The references recited in the present Specification are not listed on form PTO-1449 and copies of the foreign references are not provided.

The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a

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separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

The references cited in the PCT/KR03/01782 International Search Report and in the International Preliminary Examination Report are not provided.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogi Akio (JP 61-245817) in view of Severtson (6,113,738). Ogi discloses the process of making an air cleaner of paper fibers and synthetic thermoplastic synthetic resin fibers

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mixture in a mold under compression and application of heat (Abstract). The addition of such chemicals as paraffin wax, acrylamide, colloidal silica and polyvinyl alcohol is well known in the process of making paper as disclosed by Severtson. One of ordinary skills in the art could have combined the elements as claimed by known methods and in combination of Ogi and Severtson, each element merely would have performed the same function as it did separately, and therefore one of ordinary skill in the art would have recognized that the results of the combination were predictable.

3) Claims 5-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ogi Akio (JP 61-245817). Ogi discloses an air cleaner made of paper fibers and synthetic thermoplastic synthetic resin fibers made in a mold under compression and application of heat (Abstract).

In the event any differences can be shown for the product of the product-by-process claims 5-7, as opposed to the product taught by the reference Ogi, such differences would have been obvious to one of ordinary skill in the art as a routine modification of the product in the absence of a showing of unexpected results; see also *In re Thorpe*, 227 USPQ 964 (Fed. Cir. 1985).

Conclusion

4) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone no. is 571-272-1190.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mark Halpern/ Primary Examiner Art Unit 1731